

Title (en)

Method for reducing feedback information overhead in precoded mimo-ofdm systems

Title (de)

VERFAHREN ZUM REDUZIEREN DES RÜCKMELDEINFORMATION-SOVERHEAD IN VORCODIERTEN MIMO-OFDM-SYSTEMEN

Title (fr)

PROCÉDÉ DE RÉDUCTION DE SURDÉBIT D'INFORMATIONS DE RÉTROACTION DANS DES SYSTÈMES MIMO-MROF PRÉCODÉS

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Abstract (en)

[origin: EP2400672A1] An improved method for reducing an amount of precoding feedback information in a multi-carrier Multiple-Input Multiple-Output (MIMO) communication system using precoding is disclosed. At the receiving end, the method jointly selects a limited number of P codebook indices and a limited number of K' sub-bands to be included in a subset $\hat{E} = \{m_1, \dots, m_{K'}\}$ of a set \mathcal{C} of allowed sub-bands. K' is here set to a value $K' < K$ and P is set to a value $P \geq K'$. The P codebook indices and information identifying the subset \hat{E} is then conveyed to the transmitting end.

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